

	Project Description	Agency	City	New 2007 Authority	Re-Authorize
a. 2005 LRB HB5 # 34	MSU College of Technology-Great Falls This project will address extensive deferred maintenance of the building's mechanical system, and provide for incremental costs of energy efficient components of the new mechanical and lighting systems in the construction of the building addition. Energy study complete.	Montana University System	Great Falls	\$250,000	
b. HB5 # 34	UM College of Technology-Helena This project will address extensive deferred maintenance of the building's mechanical system and provide adaptive renovations. Energy improvements to the existing building HVAC and lighting systems will provide cost savings benefits. Energy study complete.	Montana University System	Helena	less than \$150,000	
c. 2005 LRB	MSU-Billings Campus Existing boilers on campus are only 50 to 55% efficient and as old as 75 years. Energy savings projects were analyzed and some improvements made in 2006. Construction bids came in too high to complete project. A better bidding climate is expected in 2007 to make the remaining work feasible.	Montana University System	Billings		\$350,000
d. 2005 LRB	Men's Prison, Kitchen The air handling system is over 20 years old and was not designed for the current operation of the building. The building is hard to heat in the winter and hard to cool in the summer. This project will include lighting upgrade, control systems, and new HVAC system.	Department of Corrections	Deer Lodge		\$297,000
e. 2005 LRB	Lone Pine Visitor Center Lighting and HVAC energy improvements needed for year round use of facility.	Department of Fish, Wildlife and Parks	Kalispell		\$25,000
f. HB 5 #11	School for Deaf and Blind, Bitterroot Hall Upgrade heating/cooling systems and equipment resulting in more energy efficient operations.	Board of Public Education	Great Falls	less than \$150,000	
g. energy savings	MSU Billings-College of Technology Existing building upgrades for energy efficiency.	Montana University System	Billings		\$250,000
h. energy savings	UM Western, PE and Auxiliary Bldgs HVAC and heating upgrades for energy efficiency.	Montana University System	Dillon	\$250,000	
i. energy savings	UM, Music Building Building commissioning project was completed. This project will implement the recommendations for improvements and add to building work done in 1995.	Montana University System	Missoula	\$50,000	

EXHIBIT
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j.	HB 5 #31	Montana Veterans' Home	HVAC improvements including replacement of old boilers and controls, replacement of older ventilation units, and controls on existing and new section.	Department of Public Health and Human Services	Columbia Falls	less than \$150,000	
k.	energy savings	Miles City FWP	Commissioning project completed at the hatchery recommended equipment upgrades. Lighting project upgrades were identified in 2006. This project is eligible for MDU funding for the headquarters building.	Department of Fish, Wildlife and Parks	Miles City		\$50,000
l.	2005 LRBP	MSU Northern, Pershing and Brockman Center	Heating system upgrades to these buildings replace the old steam system with a new hydronic hot water system and provide ventilation and cooling.	Montana University System	Have		\$29,000
m.	energy savings	UM-Tech, Petroleum	Old, inefficient egg crate style lighting will be replaced with new pencil thin high efficiency T5 lighting. The Northwestern Energy USBC lighting rebate incentive funding will be utilized to keep project costs low.	Montana University System	Butte		\$27,000
n.	energy savings	Xanthopolis Building, Montana State Hospital	Provide incremental funding to match federal funding for expanding geothermal utilization at the campus and repairs to facility.	Department of Public Health and Human Services	Warm Springs	less than \$150,000	
o.	energy savings	Men's Prison, Dairy and Laundry	Integrate renewable energy projects into existing operations. Wind turbine and biomass digester are being investigated.	Department of Corrections	Deer Lodge	less than \$150,000	
p.	2005 LRBP	UM Health Sciences Building	The first phase of this project was for cooling in just the basement lab portion of the Health Sciences Building. Phase II provides the remaining 5 floors of the building cooling through the ground water system and upgrades the building HVAC.	Montana University System	Missoula		\$45,000
q.	water savings	School for Deaf and Blind, Water Conservation	Use well water to replace existing treated city water for irrigation. This project will promote irrigation efficiency.	Board of Public Education	Great Falls		less than \$150,000
r.	energy savings	UM-Tech, New Mining & Geology Building	Geothermal heating system is being investigated for the new building.	Montana University System	Butte	less than \$150,000	
s.	energy savings	MSU-Billings College of Technology, Campus	Efficiency upgrades are being investigated for a better performing campus including the new building currently in construction and the existing buildings.	Montana University System	Billings	less than \$150,000	

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t. energy savings	Job Service Centers Lighting system improvements at three Job Service Buildings, Hamilton, Bozeman, Butte and possibly others. Co-funded with Northwestern Energy incentive funding.	Department of Labor and Industry	Statewide	\$50,000	
u. HB 5 #1	Montana Mental Health Nursing Care Center Incremental energy funds for the emergency generator equipment and electrical system upgrades. Review lighting efficiency upgrades eligible for Northwestern Energy incentive funding.	Department of Public Health and Human Services	Lewistown	less than \$150,000	
v. HB 5 #2	Military Affairs Facilities, Statewide Incremental energy funds provided for added insulation on repaired and replaced roofs as determined by the Department of Administration, A&E Division for greatest need.	Department of Military Affairs	Statewide	less than \$150,000	
w. HB 5 #4	UM, Mansfield Library and PAR TV Buildings Incremental energy funds to provide for energy efficient measures in replacing major heating/cooling equipment.	Montana University System	Missoula	\$250,000	
x. HB 5 #9	UM College of Technology-Butte Incremental energy funds for improved energy efficiency in replaced or repaired heating system. Energy efficient lighting system utilizes funding from Northwestern incentive program.	Montana University System	Butte	\$360,000	
y. HB 5 #10	Men's Prison, Housing Units Incremental funding for energy efficient measures when augmenting the work dorm capacity and replacing controls systems.	Department of Corrections	Deer Lodge	\$420,000	
z. HB 5 #12	Montana State Hospital, Xanthopoulos Energy efficient major heating and cooling upgrades in conjunction with building renovations and security upgrades.	Department of Public Health and Human Services	Warm Springs	\$250,000	
aa. HB 5 #15	UM-Northern Armory Gym Incremental funds for energy efficient measures in replacing major heating/cooling equipment in this building in conjunction with renovation worked.	Montana University System	Havre	less than \$150,000	
bb. HB 5 #18	MSU-Billings, McMullan Install energy efficient systems when the building is being renovated for HVAC and electrical deferred maintenance.	Montana University System	Billings	less than \$150,000	
cc. HB 5 #19	Environmental Labs, Cogswell Incremental funds for energy efficient measures to replace and upgrade fume hood equipment and control system in conjunction with safety and deferred maintenance.	Department of Administration	Helena	less than \$150,000	
dd. HB 5 #20	Montana Mental Health Nursing Care Center Incremental funds to provide for energy efficient measures in the temperature controls and envelope when the patient care wings are updated.	Department of Public Health and Human Services	Lewistown	less than \$150,000	

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ee.	Statewide Building Envelope Upgrades Incremental funds to provide for more energy efficient features when building envelopes are improved for structural soundness and occupant comfort.	All agencies eligible	Statewide	less than \$150,000	
HB 5 #21					
ff.	MSU-Northern, Autotech Classroom Provide energy efficient lighting fixtures and controls when classrooms and laboratory rooms are upgraded.	Montana University System	Have	less than \$150,000	
HB 5 #25					
gg.	Capitol Complex Provide energy efficient boiler/chiller equipment, upgrade on HVAC systems, energy management controls and re-installation of improved insulation as part of deferred maintenance project.	Department of Administration	Helena	less than \$150,000	
HB 5 #6,26					
hh.	Missoula DNRC Headquarters Efficient lighting at the Missoula Headquarters building with funding from Northwestern Energy Incentives, and incremental funding for other energy efficiency upgrades and improvements.	Department of Natural Resources and Conservation	Missoula	less than \$150,000	
HB 5 #27					
ii.	Law Enforcement Academy Install energy efficient systems when the building is being renovated for HVAC, lighting, and envelope deferred maintenance.	Department of Administration	Helena	less than \$150,000	
HB 5 #28					
jj.	Historic Structures Provide incremental funding to match federal demonstration funding for energy efficient technologies when repair and deferred maintenance work is done.	Department of Commerce	Virginia City, Nevada City	less than \$150,000	
HB 5 #29					
kk.	MSU-Bozeman, Campus Energy efficiency and water conservation measures for the campus energy/water distribution systems in conjunction with utility infrastructure improvements.	Montana University System	Bozeman	less than \$150,000	
HB 5 #30					
ll.	Kallispell Offices Provide incremental funding to match federal and utility demonstration funding for energy efficient technologies installed when the new office building is constructed as proposed in 2007 LRBP.	Department of Environmental Quality and Department of Natural Resources and Conservation	Kallispell	less than \$150,000	
HB 5 #38					
mm.	Montana State Hospital Campus Identify and implement upgrades to the heating systems for the remaining buildings on campus.	Department of Public Health and Human Services	Warm Springs	less than \$150,000	
HB 5 #32					
nn.	Enterprise Systems Service Center Provide incremental funding to match federal and utility demonstration funding for energy efficient technologies installed when the new office/technical building is constructed as proposed in 2007 LRBP.	Department of Administration	Helena	\$250,000	
HB 5 #33					

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oo. HB 5 #40	UM, Law School Install energy efficient systems when major repair work to the existing building HVAC and deferred maintenance work is done.	Montana University System	Missoula	\$230,000	
pp. HB 5 #41	Men's Prison, Food Service Facilities Install energy efficient systems when food service facilities are expanded and renovated.	Department of Corrections	Deer Lodge	less than \$150,000	
qq. HB 5 #64, 71, 74	State Parks Provide incremental funding to match federal and utility demonstration funding for energy efficient, alternative energy, and water conservation technologies installed when the agency completes maintenance work at fish access sites and state parks.	Department of Fish, Wildlife and Parks	Statewide	less than \$150,000	
	Energy Conservation Opportunities A number of projects come into the program each biennium because of their ability to provide energy savings to the state. These may be from emergency projects that provide an opportunity to get into a building, or from other needs as they come up. High Estimate of Project Costs	All agencies eligible	Statewide	As needed	
	Interacap loan request is for \$6,000,000. This will provide adequate funding for energy conservation opportunities because not all of the new projects will be funded at the level estimated (particularly the less than \$150,000 estimates). Projects that are re-authorized will be funded first from existing GO bonds, then as needed, Interacap funds will be used.			\$5,960,000	\$2,223,000
	Projects are not in priority order. Order based on an estimate of the date funding would be needed.				